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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/613,245	TEZCAN ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Dang T Nguyen	2824	

-- **The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**  
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12 October 2004.
2. ☒ The allowed claim(s) is/are 1-30.
3. ☒ The drawings filed on 03 July 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f):
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input checked="" type="checkbox"/> Other <u>Search history</u></li> </ol> |
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**ANH PHUNG**  
**PRIMARY EXAMINER**

***Response to Amendment***

1. This office action is in response to applicant's amendment received on 08/09/04. Claim 18 has been amended. Claims 1 - 30 are pending in this case. Claims 1, 16, 18, 20, and 29 are independent claims.

***Allowable Subject Matter***

2. Claims 1 – 30 are allowed.

The following is an examiner's statement of reasons for allowance:

**With respect to claim 1**, in addition to other elements in the respective claims, the prior art of record fails to teach, suggest "a virtual partitioning circuit that selectively enables a partition in the CAM core for search of a portion of a search word at the search word input responsive to the search word, and that provides a mapping of the search word to a comparand input to the CAM core, the mapping defining a virtual subpartition".

**With respect to claims 16 and 29**, the prior art Periera discloses a Content Addressable Memory having a plurality of CAM blocks with block selection circuit. However there is no suggestion or teaching in the prior art to provide "a random access memory (RAM) that accesses a memory location therein responsive to a first portion of the search word and that applies a control input to the CAM core to constrain search for a second portion of the search word to a partition of the CAM core responsive to the accessed memory location".

**With respect to claim 18**, in addition to other elements in the respective claims, the prior art of record fails to teach, suggest "means for selectively enabling a partition

in the CAM core for searching of a portion of a search word at the search word input responsive to the search word; means for mapping the search word to a virtual subpartition identifier and for providing the virtual subpartition identifier as a comparand input to the CAM core”.

**With respect to claim 20**, in addition to other elements in the respective claims, the prior art of record fails to teach, suggest “selectively enabling a partition in a CAM core for search of a portion of the search word at the search word input responsive to the search word; mapping the search word to a virtual subpartition identifier; and searching the partition for the portion of the search word in conjunction with searching the CAM core for the virtual subpartition identifier to thereby produce a search result for the search word”.

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lien et al. (Pub. No.: US 2003/0165073 A1) discloses a content addressable memory (CAM) devices, initially applying data (e.g., search words) to the array and then performing a compare operation to identify one or more locations within the array that contain data equivalent to the applied data and thereby represent a "match" condition.

Srinivasan et al. (Patent No.: 5,706,224) discloses means for comparing a search word with all data words stored in the array, means for generating a match signal when the bits of the search word match the bits of the data words.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Contact Information***


5. Any inquiry concerning this communication from the examiner should be directed to Dang Nguyen, who can be reached by telephone at (571) 272-1955. Normal contact times are M-F, 8:00 AM - 4:30 PM.

Upon an unsuccessful attempt to contact the examiner, the examiner's supervisor, Richard Elms, may be reached at (571) 272-1869.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist, whose telephone number is (703) 305-3900. The faxed phone number for organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the Status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or [EBC@uspto.gov](mailto:EBC@uspto.gov).

Dang Nguyen 11/10/2004

  
**ANH PHUNG**  
**PRIMARY EXAMINER**